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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,582	06/23/2003	Tomochika Murakami	00862.023104	5561
5514	7590 10/11/2006		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO			AZARIAN, SEYED H	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112		•	ART UNIT	PAPER NUMBER
,			2624	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_
	10/600,582	MURAKAMI, TOMOCHIKA	
Office Action Summary	Examiner	Art Unit	
	Seyed Azarian	2624	
The MAILING DATE of this communication a	opears on the cover sheet w	ith the correspondence address	
Period for Reply		•	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MOI tte, cause the application to become A	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status	•		
1)⊠ Responsive to communication(s) filed on 23.	lune 2003		
•	is action is non-final.		
3) Since this application is in condition for allow		ters prosecution as to the merits is	
closed in accordance with the practice under	•	•	
·	<b>,</b>	•	
Disposition of Claims			
4) Claim(s) <u>1-34</u> is/are pending in the application.	n.		
4a) Of the above claim(s) is/are withdr	awn from consideration.		
5) Claim(s)is/are allowed.			
6)⊠ Claim(s) <u>1-34</u> is/are rejected.			
7) Claim(s) is/are objected to.	•		
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on 23 June 2003 is/are:	a)⊠ accepted or b)□ obje	cted to by the Examiner.	
Applicant may not request that any objection to th	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119	· ·		
12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:	•		
1. Certified copies of the priority documer	nts have been received.		
2. Certified copies of the priority documer	nts have been received in A	application No	
3. Copies of the certified copies of the pri	ority documents have beer	received in this National Stage	
application from the International Bure	au (PCT Rule 17.2(a)).	:	
* See the attached detailed Office action for a lis	st of the certified copies not	received.	
•	•		
Attachmont/ol			
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Intension	Summary (PTO-413)	
2) Notice of References Cited (F10-692)  Notice of Draftsperson's Patent Drawing Review (PT0-948)	Paper No	s)/Mail Date	•
3) Information Disclosure Statement(s) (PTO/SB/08)	· <u> </u>	nformal Patent Application	
Paper No(s)/Mail Date	6)  Other:	<b>·</b>	

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#### Claim Rejections - 35 USC § 101

#### 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 15, 17, 19, 21, 23, 27, 29 and 33 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. "A computer program functioning as an image processing apparatus", embodying functional descriptive material. However, the claim does not define a "computer-readable medium, memory or computer readable medium encoded with a computer program, such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer which permit the computer program's functionality to be realized and are only statutory when recited as being embodied in a computer-readable storage medium.

### **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.3218 may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-34 of current application provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-15 of copending Application No. (10,600,620). Although the conflicting claims are not identical, they are not patentably distinct from each other.

As an example consider claim 1, of current application, compared to claim 1, of copending application, it disclose an image processing apparatus which multiplexes noise on multilevel image data to embed visible additional information with a noise-multiplexed distribution);

first noise multiplexing means for multiplexing noise at a first visible intensity; second noise multiplexing means for multiplexing noise at a second visible intensity different from the first visible intensity;

input means for inputting, as the additional information for a predetermined pixel region unit, information representing which of the first and second visible intensities is used for multiplexing;

determination means for determining on the basis of the additional information which of the first and second visible intensities is used for multiplexing in a pixel region of interest in multilevel image data.

4. Claims 1-34 would be allowable if a terminal disclaimer is timely filed to overcome the obviousness-type double patenting.

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5. The following is an examiner's statement of reasons for allowable subject matter.

Claim 1 representative of claims 7, 8, 10-15, 17, 19, 21, 23-27, 29, and 31-33, providing an image processing apparatus, which multiplexes noise on multilevel image data to embed visible additional information with a noise-multiplexed distribution.

The invention is novel due to the input means for inputting, as the additional information, information representing whether or not to multiplex noise for each pixel, determination means for determining on the basis of the additional information whether a pixel of interest in the multilevel image data is located at a position where noise is to be multiplexed, luminance value calculation means for, when determination means determines that the pixel of interest is located at the position where noise is to be multiplexed, calculating an addition luminance value to be added to the pixel of interest on the basis of a luminance value of a neighboring region near the pixel of interest.

These key features in combination with the other features of the claimed invention are neither taught nor suggested by the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seyed Azarian whose telephone number is (571) 272-7443. The examiner can normally be reached on Monday through Thursday from 6:00 a.m. to 7:30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu, can be reached at (571) 272-7443. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR.

Status information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Seyed Azarian
Patent Examiner
Group Art Unit 2624
October 2, 2006

Sezed ayrum